

T85B/C/D

LED Street Light



Specifications

Input Voltage:	100 ~ 277Vac
Input Frequency:	50 / 60Hz
Power Factor (PF):	0.95
Surge Protection Level:	10kV line-earth
Operating Environment:	-40°C~ +50°C (1), 10% ~ 90% RH
Color Temperature (CCT):	3000K, 4000K, 5000K, 5700K
Color Rendering Index (CRI):	≥70
Housing:	Die-cast Aluminum
IP Rating of LED Light Engine:	IP68
IP Rating of Engine Compartment:	IP66
IP Rating of Electrical Compartment:	IP66
Impact Protection Level:	IK08(2)
Warranty:	5 Years Limited

Note: (1) Operating Temp. Of T85D: -40°C~ +45°C
(2) T85A & T85B are IK09 certified.

Applications

- Roadway lighting
(Urban roads, residential areas, overpasses...)
- Public areas lighting
(Theme parks, squares, parking lots...)

Features

Construction

- Die-cast aluminum housing.
- Die-cast latches provide easy, tool-less access to the electrical compartment.
- Unique patented IP68 (highest protection level) LED light engines.
- IP66 rated engine compartment sealed with tempered glass.

Distribution

- Ergonomic and dedicated lighting distributions are available for various roadway applications.

Control

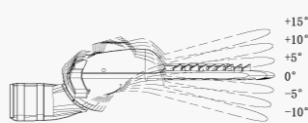
- Optional NEMA receptacle & photocell/shorting cap.

Finishing Colors

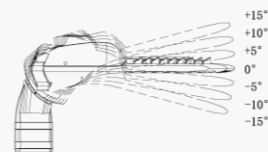


Mounting

Side-entry Installation



Post-top Installation



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Design Features



Bubble level

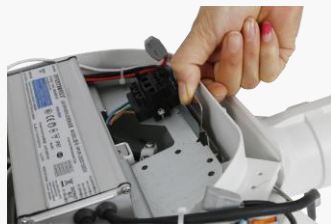
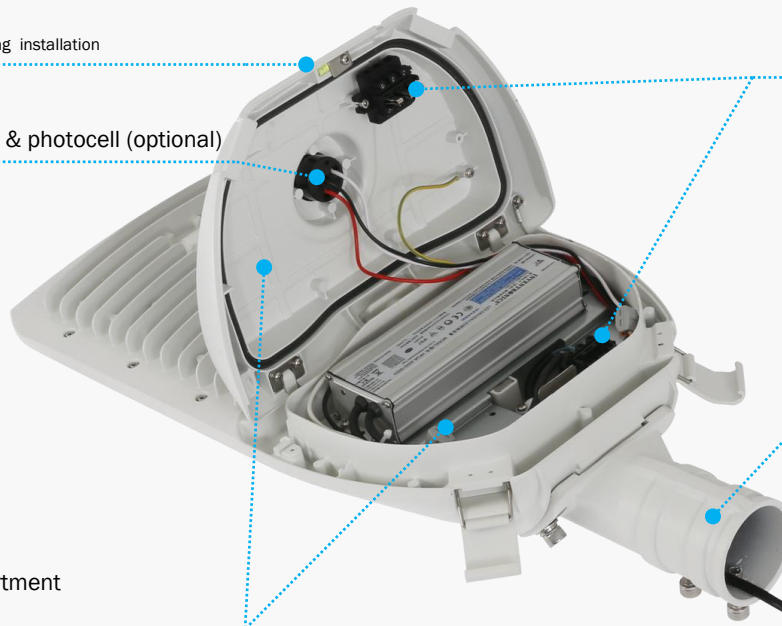
For easy leveling during installation

NEMA receptacle & photocell (optional)

Electrical compartment IP66 rated

Electrical disconnecter (optional) Immediate disconnection of power supply

Matched pole diameter Φ40-50, Φ55-65, Φ66-76



Removable Mounting Plate of Driver
Optional



Tempered Glass
IK09 rated

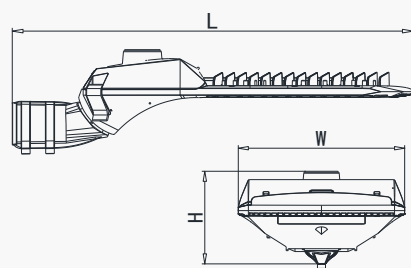


Die-cast Latches

Dimensions

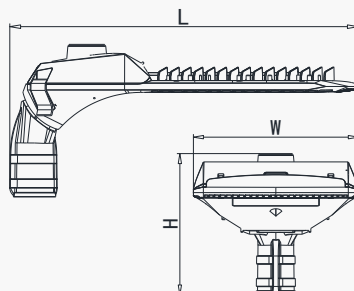
Model	L (mm)	W (mm)	H (mm)	N.W.* (kg)
T85B	615	330	185	7.8
T85C	680	330	185	9.0
T85D	745	330	185	10.0

* Values shown are subject to ±5% tolerance.



Model	L (mm)	W (mm)	H (mm)	N.W.* (kg)
T85B	515	330	285	7.8
T85C	580	330	285	9.0
T85D	645	330	285	10.0

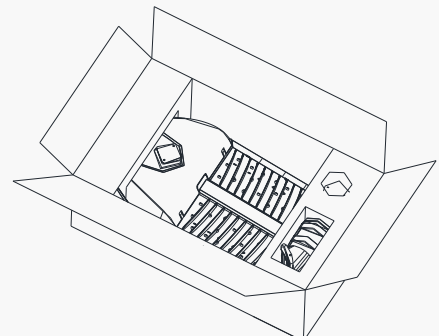
* Values shown are subject to ±5% tolerance.



Package Information

Model	L (mm)	W (mm)	H (mm)	G.W.* (kg)
T85B	595	445	245	9.3
T85C	680	460	290	10.4
T85D	740	460	290	11.7

* Values shown are subject to ±5% tolerance.



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Ordering Information

Example: T85C-N3-150-BA-28-2105-7040-CM-MO-WH

Luminary Type	Module Qty.	System Power	LED Package	Cable Standard	LED Qty. per module
T Street light	N2 2pcs Integral LED module	80 80W	A 3535	A CCC+VDE	18 18pcs
85B 85B series	N3 3pcs Integral LED module	100 100W	B 5050	C PSE	28 28pcs
85C 85C series	N4 4pcs Integral LED module	...		H UL	
85D 85D series		200 200W		X OTHER	
	240 240W				
Lens Code		CRI & CCT	Brand of LEDs	Driver Brand	Housing Color
1107 Type I Short	1113 Type III Short	2350 Type II Medium	LU LUMILEDS	IN INVENTRONICS	BK Black
2105 Type II Short	2109 Type III Medium		7030 Ra≥70, 3000K		LN LUMINUS
2128 Type II Short	2127 Type III Medium	3535 Type II Medium	7040 Ra≥70, 4000K	MO MOSO	GY Gray
2111 Type II Medium	2040 Type V		7050 Ra≥70, 5000K	XX OTHER	UG Umbra Gray
3106 Type II Short	2114 Type V		7057 Ra≥70, 5700K		
5050 LEDs		3535 LEDs			

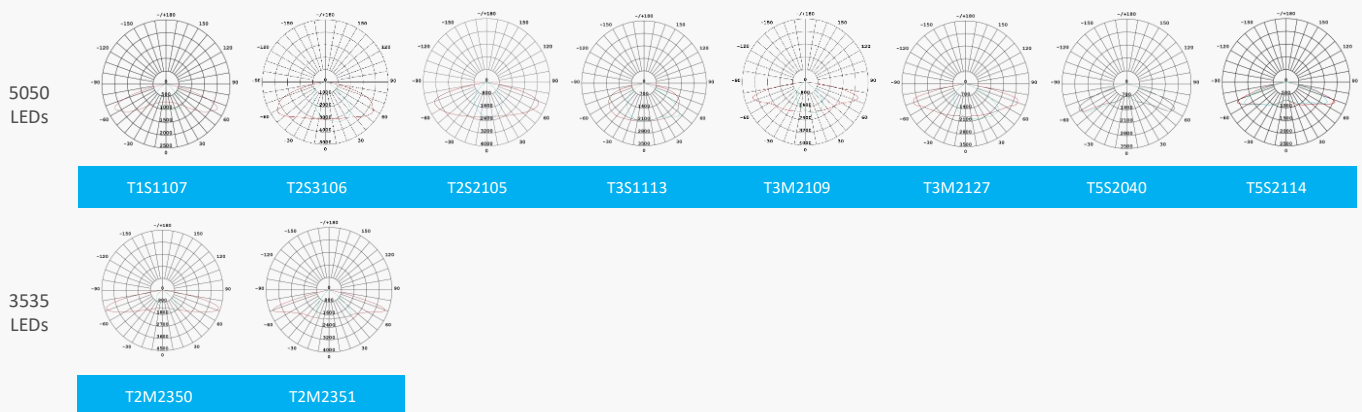
Performance

Model	Power (w)	5050 LEDs-28pcs		5050 LEDs-18pcs		3535 LEDs-28pcs	
		Efficacy (lm/W)	Lumens (lm)	Efficacy (lm/W)	Lumens (lm)	Efficacy (lm/W)	Lumens (lm)
T85B	80	157	12,560	144	11,520	120	9,600
	100	153	15,300	135	13,500	115	11,500
	120	147	17,640	126	15,120	110	13,200
T85C	150	153	22,950	135	20,250	120	18,000
	180	147	26,460	126	22,680	115	20,700
T85D	200	153	30,600	135	27,000	120	18,000
	240	147	35,280	126	30,240	115	20,700

*Above values are calculated based on the product with CCT over 3000K, values of 3000K are 5% lower than above values.

*Values shown are subject to ±5%~±8% tolerance.

Distributions



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Accessories

Optional Adapter



Model Name	Mounting O.D. (mm)	Max. Mounting Depth (mm)
L50	Φ40~Φ50	90
L60	Φ55~Φ65	100
L70	Φ66~Φ76	100

Photocell



Photocell	Shorting Cap
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Version History

Change Date	Version	Description of Change		
		Item	From	To
2019/05/27	/	Datasheet release		
2020/11/25	2.1	Operating Environment of T85D	Added	
		Finishing color of umbra gray	Added	